

SECRET

(When Filled In)

Approved For Release 2003/01/28 : CIA-RDP78B04770A002600100001-3
R & D CATALOG FORM

DATE 28 December 1965

1. PROJECT TITLE/CODE NAME

Plotter Marking System

2. SHORT PROJECT DESCRIPTION

Improved marking system for the High-speed Precision Coordinatograph.

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5. CLASS OF CONTRACTOR

Manufacturer

6. TYPE OF CONTRACT

Time and Materials

7. FUNDS

FY 19 \$

FY 1966

FY 19 \$

8. REQUISITION NO.

10. EFFECTIVE CONTRACT DATE
(Begin - end)

January 1966 - April 1966

9. BUDGET PROJECT NO.

NP-IO-11

11. SECURITY CLASS.

AA-Confidential

T-Unclassified

W-Unclassified

12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION

DDI/NPIC/P&DS

13. REQUIREMENT/AUTHORITY

The High-speed Precision Coordinatograph manufactured by [] under Contract [] and installed at NPIC in July 1965 requires a more positive marking system than that supplied with the instrument.

14. TYPE OF WORK TO BE DONE

Study effort.

Declass Review by
NIMA/DOD

15. CATEGORIES OF EFFORT

MAJOR CATEGORY

Immediate Operational
Modifications

SUB-CATEGORIES

Marking Systems

Pens

Inks

Electrographic

16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC.

A report on the best marking system applicable to the existing instrument and meeting NPIC requirements together with design recommendations.

17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION

Coordination has been effected with IPD and PD. Contract [] provided the High-speed Precision Coordinatograph.

18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required)

The existing marking system on the High-speed Precision Coordinatograph (plotter) is operationally unsatisfactory. The ink currently in use is a slow drying type such as used in oscillograph recorders. This type is necessary to allow free-flowing, non-clogging operation. However, the drying properties make the plot unusable for immediate handling. In addition, the free-flow characteristics of the ink causes frequent spattering in the dotting and lettering modes. The pen now in use is an Electronics Associates Inc., plotter

(Cont'd)

19. APPROVED BY AND DATE

OFFICE

DEPUTY DIRECTOR

DDCI

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18. Continued...

pen with a modified ink supply which allows a long plotting period.

The original plotter contract was fixed price at a cost [] with a twelve month delivery schedule. Instead, delivery was made eighteen months after contract and cost the contractor approximately [] additional. In view of the delayed delivery, the additional costs incurred, internal pressure for use and lack of available manpower, it was decided to ship, install and test the plotter without an extended evaluation at the contractor's facility. The marking system, at the time of installation, performed satisfactorily and acceptance of the plotter was made. However, since that time, it has become evident that constant cleaning and manipulation of the marking system is necessary to keep it operational. If this could be performed on a routine basis (daily or oftener if required) the system would operate more satisfactorily. However, this would not solve the slow drying problem which restricts the intended use of the plotter.

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[] proposes to study all existing marking systems. They will then select and purchase components of those systems most applicable to the coordinatograph as it will be used by NPIC, breadboard the systems, evaluate the results, and select and report on the most promising system.

The effort is planned as a four month program and will be either a fixed price or time and materials contract. It is estimated to require approximately two man-months of senior engineering effort and approximately one man-month each of drafting, technician and machinist effort plus about [] of purchased materials.

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